

Abstract

A rheometer has a rotor comprising a shaft which is seated with play in a recess of a bearing block and is supported contact-free in a radial and/or axial direction by an external air cushion which acts in a bearing section. To provide for simple and inexpensive production of an air bearing having a high loading capacity, the wall of the recess in the bearing section is continuous without bore-holes, and consists of air-permeable material. The bearing air loads the side of the wall facing away from the shaft and penetrates through the wall.